

#### **SOUTH 4 GROUP FIRE**

Port Neches, TX
Property Assessment Summary
December 7, 2019
Project #112322

#### 1.0 Introduction

Beginning on December 1, 2019, CTEH® initiated observational assessments and collection of potential facility-related debris in the adjacent community near the TPC Group facility located in Port Neches, Texas. These observational assessments, debris collection, and sampling events have been driven by concerns over bulk debris potentially containing asbestos, which may have been dislodged or mechanically disturbed during the South 4 Group Fire and subsequently transported to off-site locations. The property assessments were conducted at various locations, including residential, commercial, and public areas, within the community surrounding the TPC Group facility.

This report summarizes the analytical sampling data from wipe and bulk samples collected during property assessments conducted from December 1, 2019 to December 4, 2019 and laboratory reports received as of December 6<sup>th</sup>, 2019.

#### 2.0 Bulk and Wipe Sampling Methods

CTEH has developed and implemented a Community Assessment Plan for the South 4 Group Fire Response. The Community Assessment Plan was approved by local, state, and federal representatives of the on-site Unified Command (UC). **Attachment A** contains an incident site map and sampling locations map.

Following the field collection of potential facility-related debris, samples were sent to an American Industrial Hygiene Association (AIHA)-accredited laboratory for analysis. Bulk samples were analyzed for the asbestos content and fibers using the EPA 600/R-93/116 Method involving polarized light microscopy. In addition to bulk sample analysis, CTEH collected wipe samples to verify the presence/absence of asbestos fibers on both indoor and/or outdoor surfaces associated with residences that reported potential terminal debris on their property. Wipe samples were analyzed for the presence of asbestos fibers via ASTM Method 6480.

#### 3.0 Analytical Sampling Results

A summary of bulk and wipe sample results is included in Tables 1 and 2, respectively. **Attachment B** and **Attachment C** include tables of bulk and wipe sample results, respectively, broken down by location.



#### Table 1. Property Assessment Bulk Sampling Summary Data as of 12/6/2019 1600 CDT

		# Laboratory		Range of Detections
Analytical Method	Analyte	Results	# Detections	(%)
EPA 600/R-93/116	Asbestos Type	73	36	2 – 55 %

### Table 2. Property Assessment Wipe Sampling Summary Data as of 12/6/2019 1600 CDT

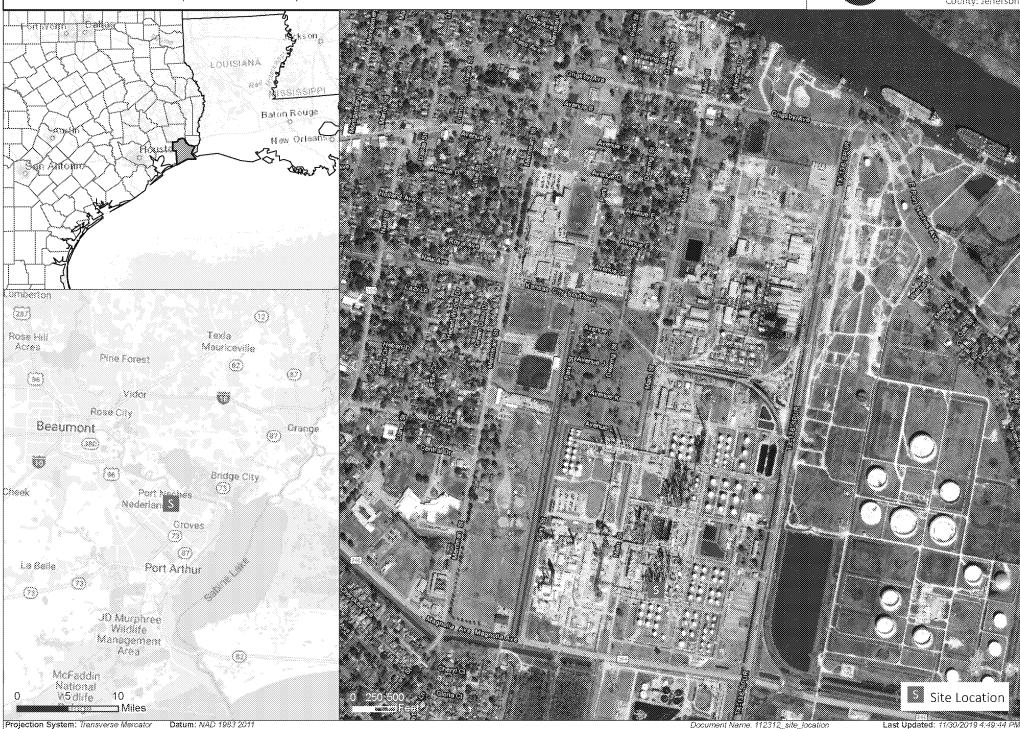
Analytical Method	Analyte	# Laboratory Results	# Detections of Asbestos Type	Range of Detections (Asbestos Structures)
ASTM Method 6480	Asbestos Type	70	0	< 2.99 asbestos structures



#### Attachment A

**Site Location and Sampling Locations** 

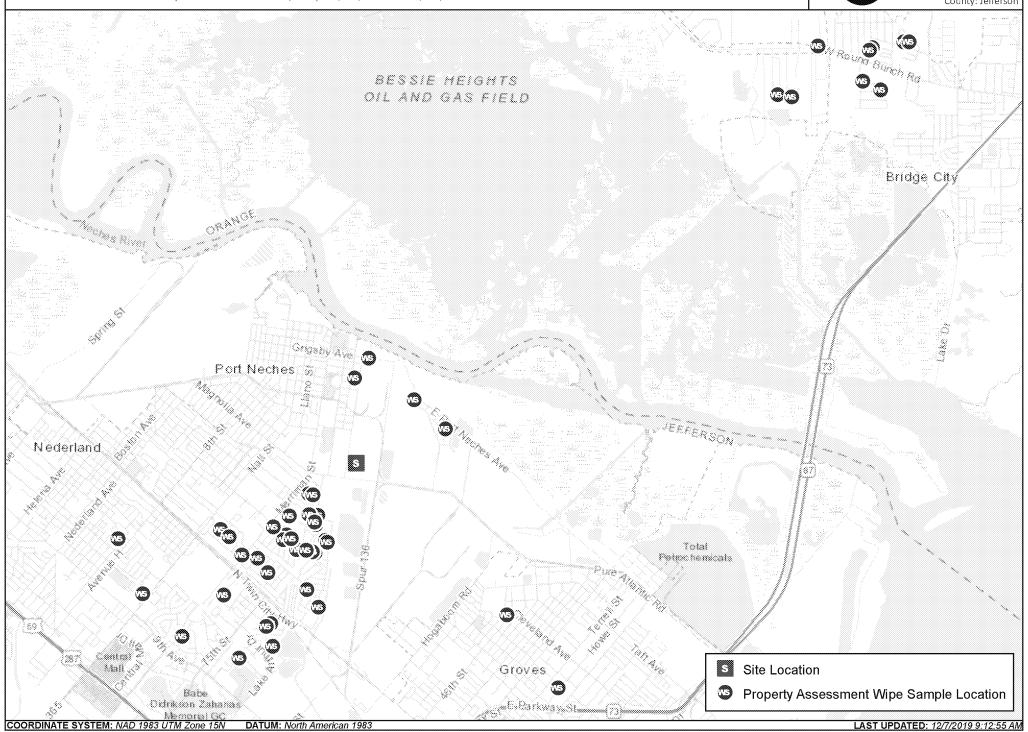
Project: 112312 Client: TPC Group City: Port Neches, TX County: Jefferson



Preliminary Asbestos Wipe Sampling Property Assessment Locations
South 4 Group Fire | Port Neches, TX | 12/01/2019 - 12/06/2019



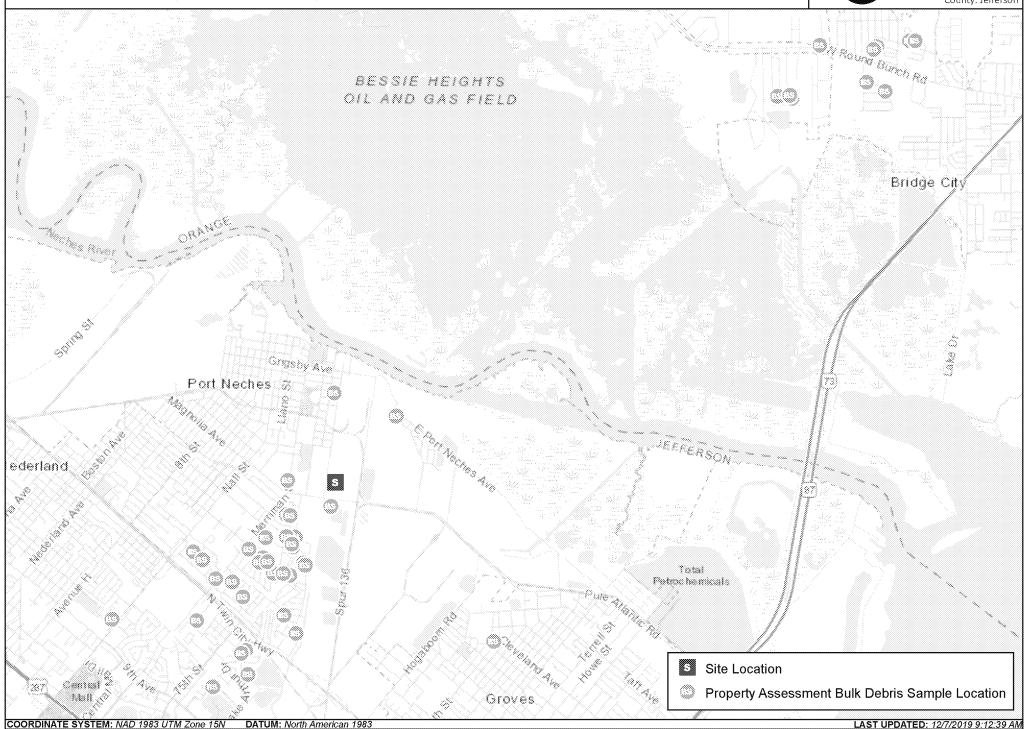
Project:112322 Client: TPC City: Port Neches, TX County: Jefferson



Preliminary Asbestos Bulk Debris Sampling Property Assessment Locations
South 4 Group Fire | Port Neches, TX | 12/01/2019 - 12/06/2019



Project:112322 Client: TPC City: Port Neches, TX County: Jefferson



### **Attachment B**

## **Bulk Sampling Results**



## Preliminary Asbestos Laboratory Results | Property Assessment Bulk Sampling (PLM)<sup>1</sup> South 4 Group Fire | Data as of 12/7/2019 9:17:44 AM

City/Facility	Sample Date	Sample Number	Lab COC	Color	Asbestos Type	Asbestos Type %	% Non-Fibrous Amount
Orange, TX	12/1/2019	OTX12018S001	151908987	White/Black	Chrysotile	5	95
	12/1/2019	OTX120183002	151908987	Gray/White/Beige	None Detected	NA	5
			151908987	Slack	Chrysotile	6	94
	12/1/2019	OTX12018S003	151908987	Black	Chrysotile	7	93
	12/1/2019	OTX120185004	151908987	Slack	Chrysotile	6	94
	12/1/2019	OTX12018S005	151908987	Black	Chrysotile	5	95
	12/1/2019	OTX1201BS006	151908987	Gray/Yellow	None Detected	NA	5
			151908987	Black	Chrysotile	4	86
Port Neches,	12/2/2019	PNTX12028S001B	151909004	Black	None Detected	NA	100
TX			151909004	Black	Chrysotile	4	96
	12/2/2019	PNTX1202BS001A	151909004	Black	Chrysotile	8	92
			151909004	Black	Chrysotile	5	95
			151909004	White/Black	None Detected	NA	85
	12/2/2019	PNTX1202BS003B	151909004	Slack	None Detected	NA	100
			151909004	Black/Beige	None Detected	NA	5
			151909004	Black	Chrysotile	7	93
	12/2/2019	PNTX1202BS002B	151909004	Black	None Detected	NA	1.00
	12/2/2019	PNTX12028S0048	151909004	Black	Chrysotile	5	95
			151909004	Black	None Detected	NA	100
	12/2/2019	PNTX12028S005B	151909004	Black	None Detected	NA	100
			151909004	Black	Chrysotile	7	93
	12/2/2019	PNTX1202BS006B	151909004	White	None Detected	NA	1.00
			151909004	Various/Black	None Detected	NA	75
	12/2/2019	PNTX1202BS007B	151909004	Black	None Detected	NA	100
			151909004	Gray	Chrysotile	23	77
	12/2/2019	PNTX1202BS001C	151909004	Black	Chrysotile	4	96
	12/2/2019	PNTX12028S002C	151909004	Black	Chrysotile	7	93
			151909004	White	None Detected	NA	100
	12/2/2019	PNTX12028S002A	151909004	Gray/White/Black	Chrysotile	<1	100
			151909004	Black	None Detected	NA	100
			151909004	Black	Chrysotile	8	92
	12/2/2019	PNTX12028S003A	151909004	White/Beige	Chrysotile	20	80
	12/2/2019	PNTX12028S003C	151909004	Various/Black/Silver	Chrysotile	8	82
	12/2/2019	PNTX12028S004C	151909004	Black	Chrysotile	4	96
	12/2/2019	PNTX12028S008B	151909004	White	None Detected	NA	100
			151909004	Gray/Black	Chrysotile	5	95
	12/2/2019	PNTX1202BS005C	151909004	Black	Chrysotile	<1	100
			1.51909004	Gray/Blue	None Detected	NA	100
			151909004	Black	Chrysotile	5	95
	12/3/2019	PNTX1203BS001A	151909085	Gray/White/Black	Chrysotile	2	83
	12/4/2019	PNTX12048S002B	151909085	Black/Silver/Beige	Chrysotile	4	91
	12/4/2019	PNTX12048S003B	151909085	Gray/Black/Silver	Chrysotile	4	96
			151909085	Black	None Detected	NA	100
			151909085	Black	None Detected	NA	40
	12/4/2019	PNTX12048S004B	151909085	Gray/Black	Chrysotile	6	74
	12/4/2019	PNTX12048S007C	151909084	Gray/Black/Silver	Chrysotile	4	96

Non-detections are reported as less than ("<") the laboratory reporting limit.

Asbestos analysis by bulk materials via EPA 600/R-93/116 method using Polarized Light Microscopy (PLM)

<sup>&</sup>lt;sup>2</sup>Sample provided by resident's neighbor and was not collected directly by CTEH personnel

## Preliminary Asbestos Laboratory Results | Property Assessment Bulk Sampling (PLM) South 4 Group Fire | Data as of 12/7/2019 9:17:44 AM

City/Facility	Sample Date	Sample Number	Lab COC	Color	Asbestos Type	Asbestos Type %	% Non-Fibrous Amount
Port Neches,		PNTX12048S007C	151909084	Brown	None Detected	NA	100
TX	12/4/2019	PNTX1204BS008C	151909084	Gray/Black	Chrysotile	4	96
			151909084	Brown/Black	None Detected	NA	30
	12/4/2019	PNTX12048S010C	151,909084	Black	Chrysotile	4	96
	12/4/2019	PNTX12048S009C	151909084	Black	Chrysotile	6	94
	12/4/2019	PNTX1204BS011C	151909084	Black	None Detected	NA	100
	12/4/2019	PNTX1204BS012C	151909084	Gray/Black	Chrysotile	4	76
Bridge City,	12/4/2019	PNTX12048S0018	151909085	Gray/Black	Chrysotile	8	82
TX	12/4/2019	PNTX12048S0068	151909085	Gray/Black/Silver	Chrysotile	6	84
	12/4/2019	PNTX12048S007B	151909085	Brown/White/Black	Chrysotile	4	81
			151909085	White/Black	None Detected	NA	80
Port Arthur,	12/4/2019	PNTX12048S002C	151909084	Black/Silver	None Detected	NA	100
TX	12/4/2019	PNTX1204BS001C	151909084	Black	None Detected	NA	100
			151909084	White/Black	None Detected	NA	20
			151909084	Black	Chrysotile	4	96
			151909084	Brown/Black	None Detected	NA	100
	12/4/2019	PNTX1204BS003C	151909084	White	None Detected	NA	10
	12/4/2019	PNTX12048S006C	151909084	Black/Silver	None Detected	NA	100
	12/4/2019	PNTX12048S005C <sup>2</sup>	151909084	White	Chrysotile	55	45
	12/4/2019	PNTX1204BS004C	151909084	White	None Detected	NA	100
			151909084	Brown/Black/Silver	Chrysotile	4	96
	12/4/2019	PNTX1204BS005B	151909085		None Detected	NA	0
Huntsman Water Treatment Facility	12/2/2019	PNTX12028S001D	151909004	Black	None Detected	NA	100
			151909004	Gray	None Detected	NA	20
			151909004	Silver/Blue	None Detected	NA	100
, constity	12/2/2019	PNTX12028S002D	151909004	Black	None Detected	NA	100
			151909004	Silver	None Detected	NA	100

Non-detections are reported as less than (" $\leq$  ") the laboratory reporting limit.

Asbestos analysis by bulk materials via EPA 600/R-93/116 method using Polarized Light Microscopy (PLM)

<sup>&</sup>lt;sup>2</sup>Sample provided by resident's neighbor and was not collected directly by CTEH personnel

### **Attachment C**

Wipe Sampling Results



# Preliminary Asbestos Laboratory Results | Exterior/Interior Property Assessment Wipe Sampling<sup>1</sup> South 4 Group Fire | Data as of 12/7/2019 6:22:03 AM

City	Sample Date	Sample ID	Lab COC	Area Sampled (cm²)	Asbestos Structures
Orange, TX	12/01/2019	PNTX1201WS002	151908991	100	< 2.99
		PNTX1201WS003	151908991	100	< 2.99
	12/03/2019	PNTX1203WS009C	321925789	100	< 2.99
		PNTX1203WS010C-1	321925789	100	< 2.99
		PNTX1203WS010C-2	321925789	100	< 2.99
		PNTX1203WS011-1	321925789	100	< 2.99
		PNTX1203WS011-2	321925789	100	< 2.99
		PNTX1203WS012-1	321925789	100	< 2.99
		PNTX1203WS012-2	321925789	100	< 2.99
Port Neches,	12/01/2019	PNTX1201WS001	151908991	100	< 2.99
TX	12/02/2019	PNTX1202WS001A	291912755	100	< 2.99
		PNTX1202WS001B	291912755	100	< 2.99
		PNTX1202WS001C	321925661	100	< 2.99
		PNTX1202WS002B	291912755	100	< 2.99
		PNTX1202WS002C	321925661	100	< 2.99
		PNTX1202WS003A	291912755	100	< 2.99
		PNTX1202WS003B	291912755	100	< 2.99
		PNTX1202WS003C	321925661	100	< 2.99
		PNTX1202WS004A	291912755	100	< 2.99
		PNTX1202WS005A	291912755	100	< 2.99
		PNTX1202WS006A	291912755	100	< 2.99
		PNTX1202WS008A	291912755	100	< 2.99
	12/03/2019	PNTX1203WS001A	161924763	100	< 2.99
		PNTX1203WS001C	021908176	100	< 2.99
		PNTX1203WS002A	161924763	100	< 2.99
		PNTX1203WS002B	191914730	100	< 2.99
		PNTX1203WS002C	021908176	100	< 2.99
		PNTX1203WS003	161924763	1.00	< 2.99
		PNTX1203WS003C	021908176	100	< 2.99
		PNTX1203WS004A	161924763	100	< 2.99
		PNTX1203WS004C	021908176	100	< 2.99
		PNTX1203WS005A	161924763	100	< 2.99
		PNTX1203WS005C	021908176	100	< 2.99
		PNTX1203WS006A	161924763	100	< 2.99
		PNTX1203WS006C	021908176	100	< 2.99
		PNTX1203WS007A	161924763	100	< 2.99
		PNTX1203WS007B	191914730	100	< 2.99
		PNTX1203WS007C	021908176	100	< 2.99
		PNTX1203WS008A	161924763	100	< 2.99

Non-detections are reported as less than ("<") the laboratory reporting limit.

<sup>&</sup>lt;sup>1</sup>Asbestos analysis of dust samples via ASTM 6380 method using Transmission Electron Microscopy (TEM)

# Preliminary Asbestos Laboratory Results | Exterior/Interior Property Assessment Wipe Sampling<sup>1</sup> South 4 Group Fire | Data as of 12/7/2019 6:22:03 AM

City	Sample Date	Sample ID	Lab COC	Area Sampled (cm²)	Asbestos Structures
Port Neches,		PNTX1203WS008B	191914730	100	< 2.99
TX		PNTX1203WS008C	021908176	100	< 2.99
		PNTX1203WS009A	161924763	100	< 2.99
		PNTX1203WS009B	191914730	1.00	< 2.99
		PNTX1203WS010A	021908176	100	< 2.99
		PNTX1203WS010B	191914730	100	< 2.99
		PNTX1203WS011A	021908176	100	< 2.99
		PNTX1203WS012A	321925789	100	< 2.99
		PNTX1203WS013A	321925789	1.00	< 2.99
		PNTX1203WS014A	321925789	100	< 2.99
	12/04/2019	PNTX1204WS001A	411911779	100	< 2.99
		PNTX1204WS002A	411911779	100	< 2.99
		PNTX1204WS003A	411911779	100	< 2.99
		PNTX1204WS003B	291912866	100	< 2.99
		PNTX1204WS004A	411911779	100	< 2.99
		PNTX1204WS004B	291912866	1.00	< 2.99
		PNTX1204WS005A	411911779	100	< 2.99
		PNTX1204WS005B	291912866	100	< 2.99
		PNTX1204WS006B	291912866	100	< 2.99
		PNTX1204WS007B	291912866	100	< 2.99
Port Arthur,	12/02/2019	PNTX1202WS007A	291912755	1.00	< 2.99
TX	12/03/2019	PNTX1203WS001B	191914730	100	< 2.99
		PNTX1203WS003B	191914730	100	< 2.99
		PNTX1203WS004B	191914730	100	< 2.99
		PNTX1203WS0058	191914730	100	< 2.99
		PNTX1203WS006B	191914730	100	< 2.99
	12/04/2019	PNTX1204WS008B	291912866	100	< 2.99
Bridge City,	12/04/2019	PNTX1204WS001B	291912866	1.00	< 2.99
TX	•	PNTX1204WS002B	291912866	100	< 2.99
		PNTX1204WS009B	291912866	100	< 2.99
		PNTX1204WS010B	291912866	100	< 2.99

Non-detections are reported as less than ("<") the laboratory reporting limit.

<sup>&</sup>lt;sup>1</sup>Asbestos analysis of dust samples via ASTM 6380 method using Transmission Electron Microscopy (TEM)